

FIG. 1

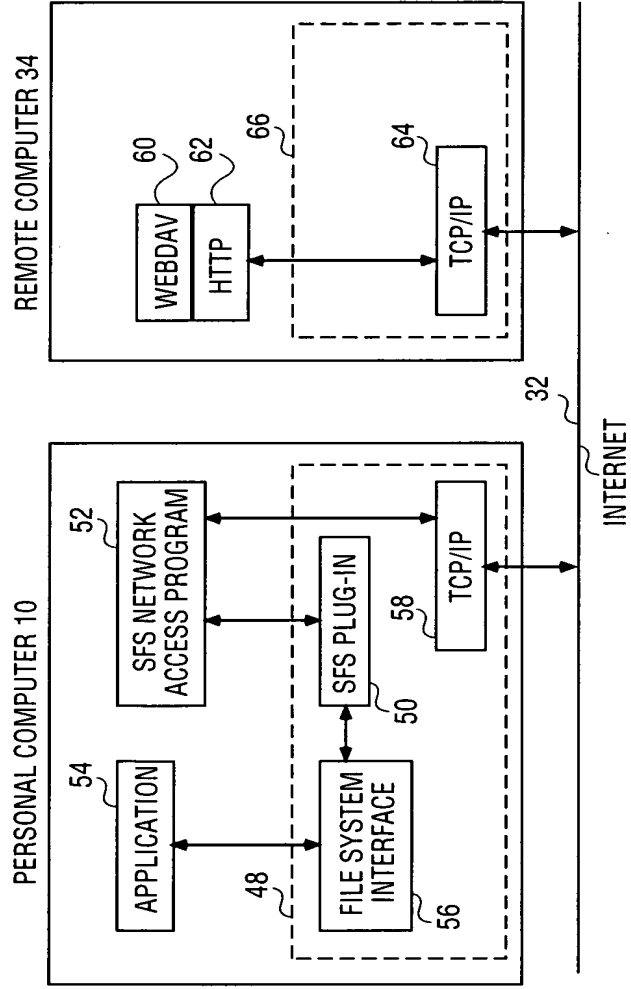


FIG. 2

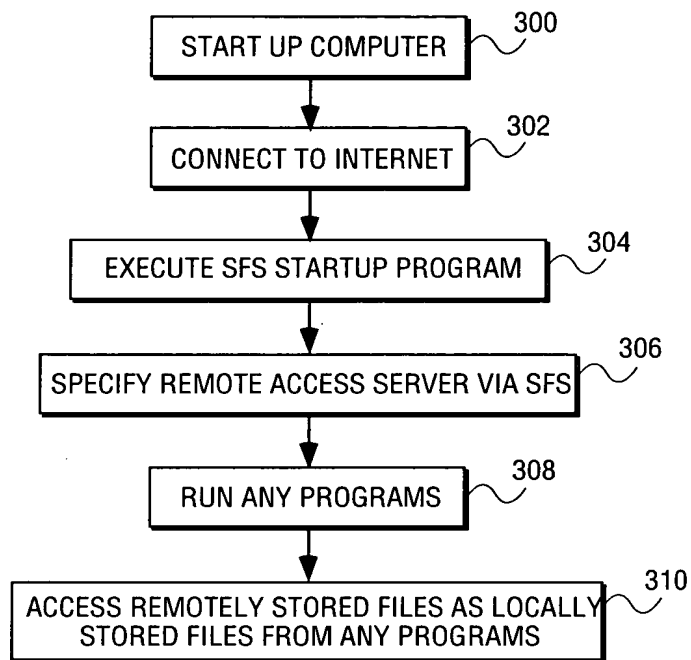


FIG. 3

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graph TD; 400[USER APPLICATION PROGRAM MAKES A FILE SYSTEM REQUEST OF A REMOTELY STORED FILE] --> 402[FILE SYSTEM INTERFACE OF OPERATING SYSTEM DIRECTS THE REQUEST TO THE SFS PLUG-IN]; 402 --> 404[SFS PLUG-IN PROCESSES REQUEST AND SENDS IT TO THE SFS NETWORK ACCESS PROGRAM]; 404 --> 406[SFS NETWORK ACCESS PROGRAM PROCESSES REQUEST AND SENDS IT TO WEBDAV SERVER OVER INTERNET]; 406 --> 408[SFS NETWORK ACCESS PROGRAM RECEIVES RESPONSIVE INFORMATION FROM WEBDAV SERVER OVER INTERNET]; 408 --> 410[SFS NETWORK ACCESS PROGRAM SENDS RESPONSIVE INFORMATION TO SFS PLUG-IN]; 410 --> 412[SFS PLUG-IN FORMATS RESPONSIVE INFORMATION AND SENDS IT TO THE USER APPLICATION PROGRAM];
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400 USER APPLICATION PROGRAM MAKES A FILE SYSTEM REQUEST OF A REMOTELY STORED FILE

402 FILE SYSTEM INTERFACE OF OPERATING SYSTEM DIRECTS THE REQUEST TO THE SFS PLUG-IN

404 SFS PLUG-IN PROCESSES REQUEST AND SENDS IT TO THE SFS NETWORK ACCESS PROGRAM

406 SFS NETWORK ACCESS PROGRAM PROCESSES REQUEST AND SENDS IT TO WEBDAV SERVER OVER INTERNET

408 SFS NETWORK ACCESS PROGRAM RECEIVES RESPONSIVE INFORMATION FROM WEBDAV SERVER OVER INTERNET

410 SFS NETWORK ACCESS PROGRAM SENDS RESPONSIVE INFORMATION TO SFS PLUG-IN

412 SFS PLUG-IN FORMATS RESPONSIVE INFORMATION AND SENDS IT TO THE USER APPLICATION PROGRAM

FIG. 4A

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graph TD
    420[USER APPLICATION PROGRAM MAKES A FILE SYSTEM REQUEST OF A REMOTELY STORED FILE] --> 422[FILE SYSTEM INTERFACE OF OPERATING SYSTEM DIRECTS THE REQUEST TO THE SFS PLUG-IN]
    422 --> 424{FILE IN LOCAL CACHE?}
    424 -- YES --> 440{KIND OF REQUEST?}
    424 -- NO --> 426[SFS PLUG-IN SENDS THE REQUEST TO THE SFS NETWORK ACCESS PROGRAM]
    440 -- GROUP 1 --> 426
    440 -- GROUP 2 --> 442[SFS PLUG-IN OBTAINS REQUESTED FILE OR FILE DATA FROM CACHE]
    426 --> 428[SFS NETWORK ACCESS PROGRAM PROCESSES REQUEST AND SENDS IT TO WEBDAV SERVER OVER INTERNET]
    428 --> 432[SFS NETWORK ACCESS PROGRAM RECEIVES RESPONSIVE INFORMATION FROM WEBDAV SERVER OVER INTERNET]
    432 --> 436[SFS NETWORK ACCESS PROGRAM SENDS RESPONSIVE INFORMATION TO SFS PLUG-IN]
    432 --> 434[SFS NETWORK ACCESS PROGRAM CACHES FILE INFORMATION AND FILE DATA]
    436 --> 438[SFS PLUG-IN FORMATS RESPONSIVE INFORMATION AND SENDS IT TO THE USER APPLICATION PROGRAM]
    434 --> 438
    442 --> 444[SFS PLUG-IN FORMATS INFORMATION AND SENDS IT TO USER APPLICATION PROGRAM]

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FIG. 4B

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graph TD; Start(( )) --> 500[FILE SYSTEM INTERFACE RECEIVES REQUEST]; 500 --> 510{LOCAL?}; 510 -- YES --> 512[PASS REQUEST TO OPERATING SYSTEM]; 510 -- NO --> 514[RECEIVE A FILE SYSTEM REQUEST FROM AN APPLICATION PROGRAM VIA FILE SYSTEM INTERFACE]; 514 --> 516[PASS REQUEST TO SFS NETWORK ACCESS PROGRAM]; 516 --> 518[RECEIVE RESPONSE FROM SFS NETWORK ACCESS PROGRAM]; 518 --> 520[PASS INFORMATION FROM RESPONSE TO APPLICATION PROGRAM];
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FIG. 5

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graph TD
    600[RECEIVE REQUEST FROM SFS PLUG-IN] --> 610[FORMAT REQUEST IN WELL KNOWN FORMAT]
    610 --> 612[SEND REQUEST TO REMOTE COMPUTER SYSTEM OVER NETWORK]
    612 --> 614[RECEIVE RESPONSE TO REQUEST]
    614 --> 616{SUBSTANTIVE RESPONSE?}
    616 -- YES --> 618[EXTRACT INFORMATION FROM RESPONSE]
    616 -- NO --> 622{TIMEOUT?}
    618 --> 620[SEND INFORMATION FROM RESPONSE TO SFS PLUG-IN]
    622 -- YES --> 624[RESEND REQUEST]
    624 --> 612
    622 -- NO --> 618
  
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FIG. 6